

Appl. No. : 10/063,672  
Filed : May 7, 2002

#### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An isolated nucleic acid having at least 80% nucleic acid sequence identity to:
  - (a) a nucleic acid sequence encoding the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10);
  - (b) ~~a nucleic acid sequence encoding the polypeptide shown in Figure 10 (SEQ ID NO:10), lacking its associated signal peptide;~~
  - (b)(e) a nucleic acid sequence encoding the extracellular domain of the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10) wherein said extracellular domain is amino acids 81-109 or 232-253 of SEQ ID NO: 10;
  - (d) ~~a nucleic acid sequence encoding the extracellular domain of the polypeptide of shown in Figure 10 (SEQ ID NO:10) lacking its associated signal peptide;~~
  - (c)(e) the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9);
  - (d)(f) the full-length coding sequence of the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9); or
  - (e)(g) the full-length coding sequence of the cDNA deposited under ATCC accession number 209922;  
wherein said isolated nucleic acid is more highly expressed in normal lung tissue compared to lung tumor, or wherein said isolated nucleic acid encodes a polypeptide that is more highly expressed in normal lung tissue compared to lung tumor.
2. (Currently Amended) The isolated nucleic acid of Claim 1 having at least 85% nucleic acid sequence identity to:
  - (a) a nucleic acid sequence encoding the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10);
  - (b) ~~a nucleic acid sequence encoding the polypeptide shown in Figure 10 (SEQ ID NO:10), lacking its associated signal peptide;~~
  - (b)(e) a nucleic acid sequence encoding the extracellular domain of the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10) wherein said extracellular domain is amino acids 81-109 or 232-253 of SEQ ID NO: 10;
  - (d) ~~a nucleic acid sequence encoding the extracellular domain of the polypeptide of shown in Figure 10 (SEQ ID NO:10) lacking its associated signal peptide;~~

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(c)(e) the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9);

(d)(f) the full-length coding sequence of the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9); or

(e)(g) the full-length coding sequence of the cDNA deposited under ATCC accession number 209922;

wherein said isolated nucleic acid is more highly expressed in normal lung tissue compared to lung tumor, or wherein said isolated nucleic acid encodes a polypeptide that is more highly expressed in normal lung tissue compared to lung tumor.

3. (Currently Amended) The isolated nucleic acid of Claim 1 having at least 90% nucleic acid sequence identity to:

(a) a nucleic acid sequence encoding the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10);

(b) ~~a nucleic acid sequence encoding the polypeptide shown in Figure 10 (SEQ ID NO:10), lacking its associated signal peptide;~~

(b)(e) a nucleic acid sequence encoding the extracellular domain of the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10) wherein said extracellular domain is amino acids 81-109 or 232-253 of SEQ ID NO: 10;

(d) ~~a nucleic acid sequence encoding the extracellular domain of the polypeptide of shown in Figure 10 (SEQ ID NO:10) lacking its associated signal peptide;~~

(c)(e) the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9);

(d)(f) the full-length coding sequence of the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9); or

(e)(g) the full-length coding sequence of the cDNA deposited under ATCC accession number 209922;

wherein said isolated nucleic acid is more highly expressed in normal lung tissue compared to lung tumor, or wherein said isolated nucleic acid encodes a polypeptide that is more highly expressed in normal lung tissue compared to lung tumor.

4. (Currently Amended) The isolated nucleic acid of Claim 1 having at least 95% nucleic acid sequence identity to:

(a) a nucleic acid sequence encoding the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10);

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~~(b) a nucleic acid sequence encoding the polypeptide shown in Figure 10 (SEQ ID NO:10), lacking its associated signal peptide;~~

~~(b)(e) a nucleic acid sequence encoding the extracellular domain of the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10) wherein said extracellular domain is amino acids 81-109 or 232-253 of SEQ ID NO: 10;~~

~~(d) a nucleic acid sequence encoding the extracellular domain of the polypeptide of shown in Figure 10 (SEQ ID NO:10) lacking its associated signal peptide;~~

~~(c)(e) the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9);~~

~~(d)(f) the full-length coding sequence of the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9); or~~

~~(e)(g) the full-length coding sequence of the cDNA deposited under ATCC accession number 209922;~~

~~wherein said isolated nucleic acid is more highly expressed in normal lung tissue compared to lung tumor, or wherein said isolated nucleic acid encodes a polypeptide that is more highly expressed in normal lung tissue compared to lung tumor.~~

5. (Currently Amended) The isolated nucleic acid of Claim 1 having at least 99% nucleic acid sequence identity to:

~~(a) a nucleic acid sequence encoding the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10);~~

~~(b) a nucleic acid sequence encoding the polypeptide shown in Figure 10 (SEQ ID NO:10), lacking its associated signal peptide;~~

~~(b)(e) a nucleic acid sequence encoding the extracellular domain of the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10) wherein said extracellular domain is amino acids 81-109 or 232-253 of SEQ ID NO: 10;~~

~~(d) a nucleic acid sequence encoding the extracellular domain of the polypeptide of shown in Figure 10 (SEQ ID NO:10) lacking its associated signal peptide;~~

~~(c)(e) the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9);~~

~~(d)(f) the full-length coding sequence of the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9); or~~

~~(e)(g) the full-length coding sequence of the cDNA deposited under ATCC accession number 209922;~~

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wherein said isolated nucleic acid is more highly expressed in normal lung tissue compared to lung tumor, or wherein said isolated nucleic acid encodes a polypeptide that is more highly expressed in normal lung tissue compared to lung tumor.

6. (Currently Amended) An isolated nucleic acid comprising:
  - (a) a nucleic acid sequence encoding the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10);
  - (b) a nucleic acid sequence encoding the polypeptide shown in Figure 10 (SEQ ID NO:10), lacking its associated signal peptide;
  - (b)(e) a nucleic acid sequence encoding the extracellular domain of the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10) wherein said extracellular domain is amino acids 81-109 or 232-253 of SEQ ID NO: 10;
  - (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide of shown in Figure 10 (SEQ ID NO:10) lacking its associated signal peptide;
  - (c)(e) the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9);
  - (d)(f) the full-length coding sequence of the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9); or
  - (e)(g) the full-length coding sequence of the cDNA deposited under ATCC accession number 209922.
7. (Currently Amended) The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10).
8. (Canceled).
9. (Currently Amended) The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide having the amino acid sequence of amino acids 34-321 of shown in Figure 10 (SEQ ID NO:10) wherein said extracellular domain is amino acids 81-109 or 232-253 of SEQ ID NO: 10.
10. (Canceled).
11. (Currently Amended) The isolated nucleic acid of Claim 6 comprising the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9).
12. (Currently Amended). The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9).

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13. (Original) The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the cDNA deposited under ATCC accession number 209922.
14. (Currently Amended) An isolated nucleic acid that hybridizes under stringent conditions to:
  - (a) ~~a nucleic acid sequence encoding the polypeptide shown in Figure 10 (SEQ ID NO:10);~~
  - (b) ~~a nucleic acid sequence encoding the polypeptide shown in Figure 10 (SEQ ID NO:10), lacking its associated signal peptide;~~
  - (c) ~~a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 10 (SEQ ID NO:10);~~
  - (d) ~~a nucleic acid sequence encoding the extracellular domain of the polypeptide of shown in Figure 10 (SEQ ID NO:10) lacking its associated signal peptide;~~
  - (e) the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9);
  - (f) the full-length coding sequence of the nucleic acid sequence of shown in Figure 9 (SEQ ID NO:9); or
  - (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 209922;

wherein said stringent conditions comprise 50% formamide, 5 x SSC (0.75 M NaCl, 0.075 M sodium citrate), 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5 x Denhardt's solution, sonicated salmon sperm DNA (50 µg/ml), 0.1% SDS, and 10% dextran sulfate at 42°C, with washes at 42°C in 0.2 x SSC (sodium chloride/sodium citrate) and 50% formamide at 55°C, followed by a high-stringency wash consisting of 0.1 x SSC containing EDTA at 55°C; and

wherein said isolated nucleic acid is at least about 1000 nucleotides in length.
15. (Canceled).
16. (Canceled).
17. (Original) A vector comprising the nucleic acid of Claim 1.
18. (Original) The vector of Claim 17, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector.
19. (Original) A host cell comprising the vector of Claim 17.

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20. (Original) The host cell of Claim 19, wherein said cell is a CHO cell, an E. coli or a yeast cell.

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**DELETION OF INVENTORS**

Please correct the inventorship under 37 CFR §1.48(b) by removing the following inventors from the present application:

Dan L. Eaton, Ellen Filvaroff, Mary E. Gerritsen, and Colin K. Watanabe.